

# EVALUATION OF OPERATIONAL EFFICIENCIES, COST AND ACCIDENT EXPERIENCE OF FOUR PHASE SINGLE POINT URBAN INTERCHANGES

# **Final Report 501**

### Prepared by:

Jim C. Lee, Thomas F. Larwin, Jr., and Brennan D. Kidd Lee Engineering 3033 N. 44<sup>th</sup> St. Phoenix, AZ 85018

James A Bonneson
Texas Transportation Institute
Texas A&M University
College Station, TX 77843-3135

## March 2002

### Prepared for:

Arizona Department of Transportation 206 S. 17<sup>th</sup> Avenue Phoenix Arizona 85007 in cooperation with U.S. Department of Transportation Federal Highway Administration